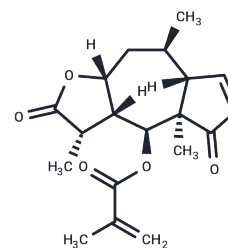


Arnicolide D

Chemical Properties

CAS No. :	34532-68-8
Formula:	C ₁₉ H ₂₄ O ₅
Molecular Weight:	332.39
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Arnicolide D is a sesquiterpene lactone. Arnicolide D isolates from <i>Centipeda minima</i> . Arnicolide D modulates the cell cycle, activates the caspase signaling pathway and inhibits the PI3K/AKT/mTOR and STAT3 signaling pathways. Arnicolide D inhibits Nasopharyngeal carcinoma (NPC) cell viability in a concentration- and time-dependent manner. Arnicolide D exerts strong cytotoxic activity on the human colon carcinoma HT-29 cell line.
Targets(IC50)	Apoptosis, NF-κB, Akt, Caspase, STAT, mTOR, PI3K, ROS
In vitro	In this study, we found that two sesquiterpene lactones, isobutyroylplenolin and Arnicolide D, from <i>Centipeda minima</i> L. (Compositae) exerted stronger cytotoxic activity than cisplatin on the human colon carcinoma HT-29 cell line. Furthermore, the cytotoxicity of these two compounds on normal cells was weaker than that of cisplatin.

Solubility Information

Solubility	DMSO: 4.16 mg/mL (12.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0085 mL	15.0426 mL	30.0851 mL
5 mM	0.6017 mL	3.0085 mL	6.017 mL
10 mM	0.3009 mL	1.5043 mL	3.0085 mL
50 mM	0.0602 mL	0.3009 mL	0.6017 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Huang X, et al. Cytotoxic activity of two natural sesquiterpene lactones, isobutyroylplenolin and arnicolide D, on human colon cancer cell line HT-29. Nat Prod Res. 2014;28(12):914-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481